

Receiving Report

Date:

13/01/16

Batch No:

1124 297

Supplier:

FACTORY SDR

Dart P/O:

18826

Packing Slip:

Yes

☒

No

Release Note Attached:

Yes

☐

No

☐

N/A

☐

Invoice:

Yes

☐

No

☒

Waybill Attached:

Yes

☒

No

☐

N/A

☐

Receipt:

Cash

☐

Cr

☒

QC6 Inspection

Yes

☒

No

☐

N/A

☒

Work Order

13/01/24

N/A

☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK)

Level 12

LA

Production/Admin:

Date

18/01/17

Received/Costing

Initial

CR

Location

Purchase Order Receipt Listing

Thursday, January 17, 2013 8:15:04 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO18727 Receipt Dates from 1/17/2013 to 1/17/2013 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VU-FAC001 Factory Steel											
PO18727	1		M4130NT0.750W.04 f		1/15/2013	1/17/2013	117.5000	\$6.39	0.0000	0	\$750.83
USD	No		9								
			4130 RD Tube .750 f		115.0000	DESJ02		\$750.83	0.0000	0	
			x.049W								
			124293								
2			M4130NT0.750W.08 f		1/15/2013	1/17/2013	26.0000	\$8.10	0.0000	0	\$210.60
No			3								
			4130 RD Tube .750 f		25.0000	DESJ02		\$210.60	0.0000	0	
			x.083W								
			124293								
3			M4130NT1.000W.12 f		1/15/2013	1/17/2013	24.5000	\$10.45	0.0000	0	\$256.03
No			0								
			4130 RD Tube 1.00 x f		24.0000	DESJ02		\$256.03	0.0000	0	
			120wall:								
			124293								
4			M4130NT0.500W.04 f		1/15/2013	1/17/2013	51.0000	\$7.20	0.0000	0	\$367.20
No			9								
			4130 RD Tube .500 f		48.0000	DESJ02		\$167.20	0.0000	0	
			x.049W								
			124293								
5			M4130NT0.500W.08 f		1/15/2013	1/17/2013	23.0000	\$8.38	0.0000	0	\$192.74
No			3								
			4130 RD tube .500 x f		23.0000	DESJ02		\$192.74	0.0000	0	
			x.083W								
			124293								
6			71475-25	Each	1/15/2013	1/17/2013	1.0000	\$35.00	0.0000	0	\$35.00
No			PACKING FEE		1.0000	DESJ02		\$35.00	0.0000	0	
			124293								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<div> <div>Total Received Quantity:</div> <div>Total Qty to Inspect (PO U/M):</div> <div>Total Reject Quantity:</div> <div>Total Receipt Value:</div> <div>Total Balance Due Quantity:</div> </div>											243.0000 0.0000 0.0000 \$1,812.39 0.0000

PACKING LIST

No. 35731

PG 1 OF 2



FACTORY STEEL & METAL SUPPLY
14020 OAKLAND AVENUE
DETROIT, MI 48203

(313) 883-6300 PHONE
(313) 883-4883 FAX

SOLD TO
DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

PURCHASE ORDER #
P018727
JOB NAME

SALES ORDER #
30587
ORDER DATE
01/07/2013

SHIP TO
DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

BUYER
CHANTEL CLAVOIE
Tel (613) 632-3336
Fax (613) 632-4443

SALES REP
MICK HALON
SHIP INST
YRC

PRO#
761-645-8138
TERMS
NET 30 DAYS

RESALE #
59-2958719
CARRIER
YRC
BLIND Y/N
N
FOB
DETROIT

SHIP DATE
01/08/2013

SHIP VIA
YRC

LINE	QUANTITY	DESCRIPTION	WIDTH	LENGTH	WEIGHT	UNIT PRICE	TOTAL
2	26 FT	4130 CD SMLSS RD TUBE 3/4" OD X .083W Our Tag # Mill Ref # Heat # 83927 745838	Total Ft 117.5	10' / 23' PL	43.099		
3	24.5 FT	4130 CD SMLSS RD TUBE 1" OD X .120W Our Tag # Mill Ref # Heat # 83928 001M39509	Total Ft 26	24' / 26' RL	27.636		
4	51 FT	4130 CD SMLSS RD TUBE 1 1/2" OD X .049W Our Tag # Mill Ref # Heat # 83929 556126	Total Ft 24.5	19' / 24' RL	12.036		
5	24 FT	4130 CD SMLSS RD TUBE 1 1/2" OD X .083W Our Tag # Mill Ref # Heat # 83930 137954	Total Ft 51	23' RL	8.870		
TOTAL WT		RECEIVED BY - PRINTED NAME		DATE RECEIVED		TOTAL	

43/01/16



50

PACKING LIST

No. 35731 PG 2 OF 2

LINE	QUANTITY	DESCRIPTION	WIDTH	LENGTH	WEIGHT	UNIT PRICE	TOTAL
6	1 PC	Our Tag # Mill Ref # Heat # 83931 536742 PACKING CHARGES MTRS (CIRCLE) FAX SHIPMENT INVOICE ALL DATE: _____ INITIAL: _____	Total Ft 24				
<div style="text-align: right; font-size: 2em; margin-bottom: 10px;">/4/3/11/16</div>							
<div style="display: flex; justify-content: space-between;"> <div> TOTAL WT 107 LBS </div> <div> RECEIVED BY - SIGNATURE </div> </div>							
<div style="display: flex; justify-content: space-between;"> <div> RECEIVED BY - PRINTED NAME </div> <div> DATE RECEIVED </div> </div>							
TOTAL							



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18727

Purchase Order Date 1/07/13

PO Print Date 1/07/13

Page Number 1 of 2

Order From :

FACTORY STEEL
14020 OAKLAND AVE.
DETROIT, MI 48203
US

VU-FAC001

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

313 883 6300

313 883 4883

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
FC 13/01/13

M124293

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M4130NT0.750W.049	4130 RD Tube .750 x.049W	1/15/13 Yes	115.00 f 117.5	Yellow Standard	\$6.3900	\$734.85
		Special Inst:	MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374				
2	M4130NT0.750W.083 ✓	4130 RD Tube .750 x.083W	1/15/13 Yes	24.00 f 26	Yellow Standard	\$8.1000	\$194.40
		Special Inst:	MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374				
3	M4130NT1.000W.120 ✓	4130 RD Tube 1.00 x .120wall	1/15/13 Yes	24.00 f 24.5	Yellow Standard	\$10.4500	\$250.80

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required YES NO

Change Nbr:

1

Change Date: 1/07/13

DART
aerospaceDart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053**PURCHASE ORDER**Purchase Order ID **PO18727**

Purchase Order Date 1/07/13

PO Print Date 1/07/13

Page Number 2 of 2

Order From :FACTORY STEEL
14020 OAKLAND AVE.
DETROIT,, MI 48203
US

VU-FAC001

Contact Name

Vendor Phone 313 883 6300

Vendor Fax 313 883 4883

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr**Tax Resale Nbr**

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Special Inst: MATERIAL: AISI 4130N STEEL TUBING
AS PER
MIL-T-6736 OR AMS 6371/6360/6361/6362
6373/6374

4	M4130NT0.500W.049 ✓	4130 RD Tube .500 x.049W	1/15/13	48.00	Yellow Standard	\$7.2000	\$345.60
			Yes	f	51		

Special Inst: MATERIAL: AISI 4130N STEEL TUBING
AS PER
MIL-T-6736 OR AMS 6371/6360/6361/6362
6373/6374

5	M4130NT0.500W.083 ✓	4130 RD tube .500 x .083W	1/15/13	✓ 23.00	Yellow Standard	\$8.3800	\$192.74
			Yes		24		

Special Inst: MATERIAL: AISI 4130N STEEL TUBING
AS PER
MIL-T-6736 OR AMS 6371/6360/6361/6362
6373/6374

6		PACKING FEE	1/15/13	1.00	Yellow Standard	\$35.0000	\$35.00
			Yes	Each			

PO Total:**\$1,753.39****MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**No substitution or deviation without
consent.Certificate of Conformity or Material
Certification required **YES** NO

Change Nbr: 1

Change Date: 1/07/13

ORDER ACKNOWLEDGMENT

No. 30587 PG 1 OF 1



05

FACTORY STEEL & METAL SUPPLY 14020 OAKLAND AVENUE DETROIT, MI 48203 (313) 883-6300 PHONE (313) 883-4883 FAX				CUST ID DA3336 JOB NAME RESALE # 59-2958719		BUYER CHANTEL CLAYOIE Tel (613) 632-3336 Fax (613) 632-4443 SALES REP MICK HALON PURCHASE ORDER # P018727		ORDER DATE 01/07/2013 SHIP DATE 01/10/2013 SHIP VIA YRC	
SOLD TO DART AEROSPACE 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7				SHIP TO DART AEROSPACE 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7		TERMS NET 30 DAYS		FOB DETROIT	
LINE	QUANTITY	DESCRIPTION	WIDTH	LENGTH	WEIGHT	UNIT PRICE	TOTAL		
1	5 PCS	4130 CD SMLSS RD TUBE 3/4" OD X .049W		19' /23' RL	38.514	6.39/FT	670.95		
2	1 PC	4130 CD SMLSS RD TUBE 3/4" OD X .083W		25' RL	14.487	8.10/FT	198.45		
3	1 PC	4130N CD SMLSS RD TUBE 1" OD X .120W		24' /26' RL	28.2	10.45/FT	261.25		
4	2 PCS	4130N CD SMLSS RD TUBE 1/2" OD X .049W		19' /24' RL	10.148	7.20/FT	309.60		
5	1 PC	4130N CD SMLSS RD TUBE 1/2" OD X .083W		23' RL	8.686	8.38/FT	196.93		
6	1 PC	PACKING CHARGES				35.00/PC	35.00		
		<i>Chantel Bureau</i>							
TOTAL WT		SUBTOTAL	CUTTING	O/S				TOTAL	
100 LBS		\$1,672.18	\$0.00	\$0.00				\$1,672.18	



PLYMOUTH TUBE CO. USA®

1209 East 12th Street, Streator, Illinois 61364
Phone: (815) 673-1515 Fax: (815) 672-7343

PRODUCT CERTIFICATION

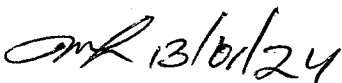
SALES ORDER - LINE ITEM/ RLS
040027 - 1 / 0

SOLD TO

Factory Steel & Metal Supply Co.
14020 Oakland Avenue
Detroit, MI 48203
USA

WORK ORDER 012409
HEAT NUMBER 745838
MELT SOURCE Benteler Steel Corp - Germany

ISO 9001:2000
AND
TS 16949:2002
CERTIFIED

CUSTOMER P.O. 8286	CUSTOMER PART	QUANTITY	LADING NO	SHIPMENT DATE									
PART DESCRIPTION H07500490J800 OD: 0.7500" Max: 0.7550" Min: 0.7500" Wall: 0.0490" Max: 0.0530" Min: 0.0450" Length: 19.00' / 26.00' Spec: Mil-T 6736B Seamless Aircraft Grade: 4130 Finish: Cond N													
CERTIFICATION REQUIREMENTS This material was Eddy Current tested and conforms to the requirements of ASTM A-450. This material is stress relief annealed. The final annealing temperature was 1150 degrees fahrenheit. The Grain size is determined and reported by the raw material supplier in accordance to ASTM E-112. This raw material was magnetic particle inspected by the raw material supplier in accordance to AMS 2640J and/or ASTM E-1444, and rated as Frequency, and Severity to AMS 2301, latest revision. Yield is determined by using the 0.2% offset method.													
Chemical Analysis													
C	Mn	P	S	Si	Al	Cr	Mo	Ni	Pb	Cu	V	Ti	Sn
.325	.55	.007	.003	.258	.037	.90	.17	.09	.001	.10	.003	.004	.010
Physical Properties													
Freq.	Severity	Grain	Size										
.029	.020		5										
Melt Source													
Melt Source Benteler Steel Corp - Germany													
Additional Specification(s)													
TEST	UNITS	#TESTS	HIGH	LOW	AVERAGE	STD-DEV							
Tensile	Psi	6	118390	114560	116552	1264							
Yield	Psi	6	114070	109820	112030	1386							
Elongation	%	6	20	13	17	3							
Rockwell B	Rb	0	-----	-----	-----	-----							
Rockwell C	Rc	0	-----	-----	-----	-----							
TEST	RESULT												
Decarb/OD	Pass												
Total ID/OD decarb	Pass												

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Streator in compliance with the requirements of the cited specification. Chemistry is as

Gerry Cross

Jan 04 07 10:19a

Plymouth Tube CoStreator

(815) 672-7343

p. 3

**PLYMOUTH TUBE CO. USA®**1208 East 12th Street, Streator, Illinois 61384
Phone: (815) 672-1515 Fax: (815) 672-7343**PRODUCT CERTIFICATION**SALES ORDER - LINE ITEM/ RLS
040027 - 1 / 0

SOLD TO

Factory Steel & Metal Supply Co.
14020 Oakland Avenue
Detroit, MI 48203
USAWORK ORDER 012409
HEAT NUMBER 745838
MELT SOURCE Benteler Steel Corp - GermanyISO 9001:2000
AND
TS 16949:2002
CERTIFIED

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	LADING NO	SHIPMENT DATE
8286				
PART DESCRIPTION: H07500490J800 OD: 0.7500" Max: 0.7550" Min: 0.7500" Wall: 0.0490" Max: 0.0530" Min: 0.0450" Length: 19.00' / 25.00' Spec: Mil-T 67368 Seamless Aircraft Grade: 4130 Finish: Cond N				13/01/24
Additional Specification(s)				
AMS-T 6736A, 6360L & 6371J				
This test report data is for the heat Chemistry Stated above.				
The material in this test report is:				
1) Free from <u>Polybrominated Biphenyls (PBB)</u> , <u>Polybrominated Diphenyl Ethers (PBDE)</u> , and <u>Mercury</u> contamination.				
2) <u>NAFTA</u> compliant.				
End of Certification				

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Streator in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube Company.

Gerry Cross

Quality Assurance



MICHIGAN
seamless tube

TEST REPORT

SHIPMEN
001

9203

MICHIGAN SEAMLESS TUBE

SOUTH LYON, MICHIGAN 48178

ORDER NUMBER	CUSTOMER ORDER NUMBER	DATE	OFC	COM	DIWI	NET SLS	GR SLS	ACCOUNT NUMBER	US	PAI
014486	8441	05/12/04	51	00	16	16	01	02598001FCO	1FT	1

FACTORY STEEL & METAL SUPPLY
14020 OAKLAND

DETROIT

MI

48203

FACTORY STEEL & METAL SUPPLY SN
14020 OAKLAND AVENUE TR
DETROIT INV
MI 48203

JTING
PEN TOP/FULLY TARPED/FOB SOUTH LYON MI

PPD TRUCK

ANALYSIS	SHAPE	PRODUCT	FC	ANNEAL	REQUESTED
130-3 (EF/MQ)	ROUND	COLD DRAWN		PER SPEC	06/18/04
SPECIFICATION		CMST	DESCRIPTION		PROMISE
AMS-6371/A519			CD ALLOY AIRCRAFT		06/18/04

ON INSTRUCTIONS
MIN YLD. AIM 85 PSI. CERT TO A519-96, MILT-6736BN
NOTICE 2. AMS-6360K (W/DECARB LEVELS TO AMS-6371H) & AMS-T-6736N.
/R W/SHIPMENT TO INCL CHEM. PHYS. DECARB. JOMINY. GRAIN SIZE &
RINNELL. PRODUCE FROM 1-HEAT. MARK TO INCLUDE GRADE. A519-96.
ILT-6736BN NOTICE 2. AMS-T-6736N. AMS-6371H & AMS-6360K.

TEM	QUANTITY	O.D.	I.D.	WALL	LENGTH	WT/FT	WEIGHT
		.750		.083 AVG		.5912	11:47:52 06/21/04

TM BALE --BALE--
UM NUM PCS FTG HEAT NO.
1 1 1 211 5406 001M39509

ITM PART
LENGTH STATUS NUMBER
RAND 19'-26' COM

OK 13/01/24

HEAT NO.	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Al	REMARKS
01M39509	.280	.520	.011	.020	.220	.150	.860	.160	.190	.018	EF MAC STEE

HEAT NO.	ULT. STR. PSI	YIELD, PSI	% ELONG	HARDNESS	HYDRO TEST PSI	ULTRA SONIC %	EDDY CURRENT	EXPANSIC
01M39509	114.285	106.857	18.7	BHN 232-239				
01M39509	110.857	106.285	21.8	BHN 232-239				
01M39509	110.919	107.471	18.7	BHN 232-239	BEND	FLATTEN	FLARE	REV. FLATTEN
01M39509	110.795	105.113	18.7	BHN 232-239				FLANGE

ECARD OK GRAIN SIZE 6

REQ 0.000 SEV 0.000

ACROS S1, R1, C1

1 J2 J3 J4 J5 J6 J7 J8 J9 J10

9 48 45 38 37 37 35 34 33 31

Eric Luster

We hereby certify that the reported data are correct according to Michigan Seamless Tube tests a



MATERIAL TEST REPORT

Page 1 of 1

Sold To: 3300035
FACTORY STEEL & METAL SUPPLY CO.
14020 OAKLAND AVENUE
DETROIT MI 48203

Ship To: 3300035
FACTORY STEEL & METAL SUPPLY CO.
14020 OAKLAND AVENUE
DETROIT MI 48203

Purchase Order: 8485
Sales Order: 126887
Material: A893100012005461 AMS 6736 10000D 120AW AMS6360,6371J
Delivery: 80202547

Description: AMS-6360L/AMS-6371J/AMS-6736B COND N./MIL-T-6736B
AMS 2301K / ASTM A519 S4130 A519

Test: NDT ELECTRIC TESTED TO ASTM A450 & E309. MAGNETIC INSPECTED TO AMS2301.
SEAMLESS 4130
A519

Heat Number: 556126
%

CARBON	LDL	0.320
MANGANESE	LDL	0.530
PHOSPHORUS	LDL	0.007
SULFUR	LDL	0.002
SILICON	LDL	0.240
NICKEL	LDL	0.140
CHROMIUM	LDL	0.870
MOLYBDENUM	LDL	0.170
COPPER	LDL	0.120
ALUMINUM	LDL	0.037
R-EACH	LDL	0.000
R-TOTAL	LDL	0.000

Ultimate (PSI) 118200 / 118500
Yield (PSI) 95,100 / 96,800
Elongation (%) 26 / 27
Hardness (RB) 98 / 100
Grain Size 9.000
Frequency rate 0.029
Severity 0.020
Decarb OD Total (IN) PASSED
Decarb ID Total (IN) PASSED
%

Jominy (RC) Heat: 556126 J5/16= 40 J8/16= 32
Origin of Melt Germany
Manufactured in USA

OK 13/01/24

Webco Industries, Inc. certifies that the material described was manufactured and tested and/or inspected in accordance with the specification and fulfills requirements in such respect.

This document conforms to the requirements of Specification EN 10204 Inspection Document Type 3.1.

This document was prepared by means of electronic processing and is valid without signature.

Date: 01/12/2011

Tony Stubblefield

Quality Manager



MATERIAL TEST REPORT

Page 1 of 1

Sold To: 3300035
FACTORY STEEL & METAL SUPPLY CO.
14020 OAKLAND AVENUE
DETROIT MI 48203

Ship To: 3300035
FACTORY STEEL & METAL SUPPLY CO.
14020 OAKLAND AVENUE
DETROIT MI 48203

Purchase Order: 1609
Sales Order: 137954
Material: A893050004905461 AMS-T-6736 05000D 049AW AMS6360,6371
Delivery: 80223699

Description: AMS-6360L/AMS-6371/AMS-T-6736B COND N./MIL-T-6736/ASTM A519
SEAMLESS 4130.

Test: NDT ELECTRIC TESTED TO ASTM A450 OR A1016 & APPLICABLE TEST METHOD E309 OR E426. MAGNETIC
INSPECTED TO AMS2301.

Heat Number: 556125
%

CARBON	LDL	0.310
MANGANESE	LDL	0.530
PHOSPHORUS	LDL	0.006
SULFUR	LDL	0.001
SILICON	LDL	0.240
NICKEL	LDL	0.100
CHROMIUM	LDL	0.880
MOLYBDENUM	LDL	0.170
COPPER	LDL	0.080
ALUMINUM	LDL	0.034
R-EACH	LDL	0.000
R-TOTAL	LDL	0.000

Ultimate (PSI)	116800 / 117700
Yield (PSI)	98,600 / 98,800
Elongation (%)	15 / 18
Hardness (RC)	19 / 19
Grain Size	9.000
Frequency rate	0.039
Severity	0.039
Decarb OD Total (IN)	PASSED
Decarb ID Total (IN)	PASSED
	%

Jominy (RC) Heat: 556125 J5/16 = 35 J8/16 = 30
Origin of Melt Germany
Origin of Raw Material Germany
Manufactured in USA

Weeco Industries, Inc. certifies that the material described was manufactured and tested and/or
inspected in accordance with the specification and fulfills requirements in such respect.

This document conforms to the requirements of Specification EN 10204 Inspection Document Type 3.1.
This document was prepared by means of electronic processing and is valid without signature.

Date: 01/05/2012

Tony Stubblefield
Quality Manager

on 1/30/12



PLYMOUTH TUBE CO. USA®

1209 East 12th Street, Streator, Illinois 61364
Phone: (815) 673-1515 Fax: (815) 672-7343

PRODUCT CERTIFICATION

SALES ORDER - LINE ITEM/RLS
041992 - 1 / 0

SOLD TO

Factory Steel & Metal Supply C
14020 Oakland Avenue
Detroit, MI 48203
USA

WORK ORDER 012974
HEAT NUMBER 536742
MELT SOURCE Benteler Steel & Tube-Germany

ISO 9001:2000
AND
TS 16949:2002
CERTIFIED

CUSTOMER P.O. 008296	CUSTOMER PART	QUANTITY	LADING NO	SHIPMENT DATE		
PART DESCRIPTION H05000830J111 OD: 0.5000" Max: 0.5050" Min: 0.5000" Wall: 0.0830" Max: 0.0900" Min: 0.0760" Length: 19.00' /26.00' Spec: Mil-T 6736B Seamless Aircraft Grade: 4130 Finish: Cond N						
CERTIFICATION REQUIREMENTS						
Chemical Analysis						
C	Mn	P	S	Si		
.310	.52	.006	.003	.250		
Al	Cr	Mo	Ni	Pb		
.033	.93	.18	.09	.001		
Cu	V	Ti	Sn			
.12	.003	.003	.012			
Physical Properties						
Freq.	Severity	Grain Size				
.117	.068	9				
Mechanical Properties						
TEST	UNITS	#TESTS	HIGH	LOW	AVERAGE	STD-DEV
Tensile	Psi	6	121400	118470	119642	1072
Yield	Psi	6	114050	112280	113135	640
Elongation	%	6	36	20	28	7
Rockwell B	Rb	0	-----	-----	-----	-----
Rockwell C	Rc	0	-----	-----	-----	-----
TEST	RESULT					
Decarb/OD	Pass					
Total ID/OD decarb	Pass					
Additional Specification(s)						
AMS-T 6736A, 6360L & 6371J						
<p>This test report data is for the heat Chemistry Stated above.</p> <p>The material in this test report is:</p> <p>1) Free from <u>Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers</u></p>						

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Streator in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the

Gerry Cross

Quality Assurance